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**RECEIVED**  
**PATENT APPLICATION**

Attorney Docket No.: 105045 31 2001

TECH CENTER 1600/2900

**AMENDMENT TRANSMITTAL**

In re the Application of

Frederic BESEME et al.

Application No.: 09/446,024

Group Art Unit: 1636

Examiner: G. Leffers, Jr.

Filed: December 16, 1999

For: ENDOGENETIC RETROVIRAL SEQUENCES, ASSOCIATED WITH AUTOIMMUNE DISEASES OR WITH PREGNANCY DISORDERS

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Transmitted herewith is an Amendment in the above-identified application.

Entitlement to small entity status is hereby asserted.  
 Small entity status of this application has been established.

The filing fee has been calculated as shown below:

	(Column 1)	(Column 2)	(Column 3)	SMALL ENTITY	OTHER THAN A SMALL ENTITY
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADD'L FEE
TOTAL CLAIMS	*35 MINUS	**20	= 15	x 9	\$
INDEP CLAIMS	* 4 MINUS	***3	= 1	x 40	\$
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				+135	\$
					\$

OR

	RATE	ADD'L FEE
x 18	\$ 270	
x 80	\$ 80	
+270	\$ -----	
		\$ 350

\* If the entry in Column 1 is less than the entry in Column 2, write "0" in Column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.

The "Highest Number Previously Paid For" in this space (Total or Independent) is the highest number found from the equivalent box in Column 1 of a prior Amendment or the number of claims originally filed.

Check No. 119359 in the amount of \$350.00 is attached. The Director is hereby authorized to charge any other fees that may be required to complete this filing, or to credit any overpayment, to Deposit Account No. 15-0461. Two duplicate copies of this sheet are attached.

DEPOSIT ACCOUNT USE  
AUTHORIZATION  
Please grant any extension  
necessary for entry;  
Charge any fee due to our  
Deposit Account No. 15-0461

Respectfully submitted,

William P. Berridge  
Registration No. 30,024

Melanie L. Mealy  
Registration No. 40,085

WPB:MLM/jca

Date: May 29, 2001



**PATENT APPLICATION**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Frederic BESEME et al.

Application No.: 09/446,024

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AUTOIMMUNE DISEASES OR WITH PREGNANCY DISORDERS

BOX: SEQUENCE

Group Art Unit: 1636

Examiner: G. Leffers, Jr.

Docket No.: 105045

#98  
30a  
June 5, 01

**REPLY TO RESTRICTION REQUIREMENT AND  
SUPPLEMENTAL PRELIMINARY AMENDMENT**

Director of the U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

In reply to the Restriction Requirement mailed March 26, 2001, and after entry of the  
Preliminary Amendment filed December 16, 1999, please amend the above-identified  
application as follows:

**IN THE SPECIFICATION:**

Page 1, line 3, insert and center:

**BACKGROUND OF THE INVENTION**

Page 3, between lines 33 and 34, insert and center:

**SUMMARY OF THE INVENTION**

Page 5, lines 14-21, delete current paragraph and insert therefor:

*B* This material is also characterized in that its genome comprises a reference nucleotide  
sequence, encoding any polypeptide exhibiting, for any contiguous sequence of at least  
30 amino acids, at least 50% homology, preferably at least 70% homology, more preferably at